

XP 002043476

1/1 - (C) WPI / DERWENT
AN - 95-198402 ç26!
AP - SU91 944267 910611
PR - SU91 944267 910611
TI - Hard alloy and transition metal carbide blanks
processing - titanium-carbide blank is pressed from
powder and heated-deformed in hydraulic press in
several stages, with reduction of temp. in each stage
and keeping temp. in relation to m.pt.
IW - HARD ALLOY TRANSITION METAL CARBIDE BLANK PROCESS
TITANIUM CARBIDE BLANK PRESS POWDER HEAT DEFORM
HYDRAULIC PRESS STAGE REDUCE TEMPERATURE STAGE KEEP
TEMPERATURE RELATED
IN - EFIMOV O YU; KAIBYSHEV O A; ZARIPOV N G
PA - (ASME-R) AS USSR METAL SUPER-PLASTICITY PROBLEMS
- (ASST-R) AS USSR STRUCTURAL MACROKINETICS INST
PN - RU2022710 C1 941115 DW9526 B22F3/24 003pp
ORD - 1994-11-15
IC - B22F3/24
FS - CPI;GMPI
DC - M22 P53
AB - RU2022710 Blanks are heated and deformed in several
stages w.r.t. degree of deformation in each stage of
not less than 20%, as temp. of blank after each stage
is reduced by 10-100 deg. C so that total
temp.-reduction during deformation process is not less
than 0.42 of m.pt. of carbide-phase, starting with
temp. = 0.56 of m.pt. of carbide-phase, speed of
deformation - 0.1-50 mm/min. After each
deformation-stage blank is turned.
- USE - In powder metallurgy, particularly method for
treating blanks from hard-alloys or based on
transition-metal carbides as well as 'pure' carbides.
- ADVANTAGE - Grain size of carbide-phase is reduced and
high-temp. plasticity as a result is increased.
- (Dwg.0/0)